

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (original) A fiberscope comprising a body (10) and an insertion tube (21) belonging to a part (20) that is separable from the body (10), this body (10) and this separable part (20) being mechanically joined at a connection zone (12, 22), this fiberscope also comprising:
 - first guide means belonging to the body (10), in particular a first set of cables (42), that can be operated via a maneuvering element belonging to the body, in particular a handle;
 - second guide means belonging to the separable part (20), in particular a second set of cables (52), that are able to move the insertion tube (21);
 - first optical means (60) belonging to the body (10), and able to transmit light to the connection zone (12, 22) and return an image of this connection zone (12, 22) to a zone for viewing by a practitioner, such as an eyepiece;
 - second optical means (70, 72) belonging to the separable part (20) and able to transmit light from the

connection zone (12, 22) to a distal end (21') of the insertion tube (21) and return an image from this distal end of the insertion tube (21) to the connection zone (12, 22), and

- first (40) and second (50) mechanical connection and optical transmission elements which are joined removably in service, each element (40, 50) being integral with corresponding guide means (42, 52) in such a way that a movement imparted by the first guide means (42) can be transmitted to the second guide means (52), these mechanical connection and optical transmission elements (40, 50) also being able to transmit light coming from the first optical means (60) to the second optical means (70, 72) and to return an image from the second optical means (70, 72) to the first optical means (60).

2. (original) The fiberscope according to claim 1, characterized in that the connection zone (12, 22) defines a seat (30) having inner walls (12₂, 22₂) in the shape of a portion of a sphere, while at least one of the first (40) and second (50) mechanical connection and optical transmission elements has spherical outer walls (40₁) with a diameter substantially equal to that of said inner walls, so as to allow three degrees of freedom in rotation,

without any degree of freedom in translation, of these two elements relative to the walls of the seat (30).

3. (original) The fiberscope according to claim 1, characterized in that the first (40) and second (50) mechanical connection and optical transmission elements are joined removably, in service, by being mutually fixed in a removable manner.
4. (currently amended) The fiberscope according to ~~claims 2 and 3~~ claim 3, characterized in that a first (40) mechanical connection and optical transmission element, provided with said outer spherical walls (40₁), defines a groove (40₅) for receiving, in a removable manner, a second (50) mechanical connection and optical transmission element, which is in particular a plane disk.
5. (original) The fiberscope according to claim 4, characterized in that the first (40) mechanical connection and optical transmission element has two parallel front faces (40₂, 40₃) and a protruding crown (40₄) defining, with one (40₃) of these front faces, said receiving groove (40₅).

6. (original) The fiberscope according to claim 2, characterized in that the connection zone comprises two complementary, almost semicylindrical connection portions (12, 22) belonging respectively to the body (10) and to the separable part (20), in which connection portions corresponding recesses are formed which are intended to form said seat (30) in service.
7. (original) The fiberscope according to claim 1, characterized in that the first and second mechanical connection and optical transmission elements are joined removably in service by being wedged relative to one another, in particular by being pressed flat against one another.
8. (original) The fiberscope according to claim 1, characterized in that the first optical means (60) comprise a succession of lenses associated with a light source.
9. (original) The fiberscope according to claim 1, characterized in that the second optical means comprise a central bundle (70) of optical fibers that are able to return an image from the distal end of the insertion tube (21) to the connection zone (12, 22), and also a peripheral

bundle (72) of optical fibers that are able to transmit light from the connection zone (12, 22) to this distal end.

10. (original) The fiberscope according to claim 9, characterized in that the peripheral bundle (72) is surrounded by a sheath (74), in particular made of a metal or plastic material.

11. (original) The fiberscope according to claim 9, characterized in that the central bundle (70) is made up of separate optical fibers.

12. (original) The fiberscope according to claim 9, characterized in that the central bundle is formed by different individual bundles of optical fibers of polyhedral shape which are disposed side by side one another.

13. (original) The fiberscope according to claim 1, characterized in that the connection zone (12, 22) is surrounded by an external locking means, in particular a ring (32).